

Title (en)
AN EXTRUDED SYNTHETIC RESIN FOAM AND ITS MANUFACTURING METHOD

Publication
EP 0353701 A3 19910123 (EN)

Application
EP 89114160 A 19890801

Priority
• JP 17092889 A 19890630
• JP 19371788 A 19880802

Abstract (en)
[origin: EP0353701A2] An extruded synthetic resin foam comprises a cell structure of substantially two different cell sizes, the smaller size being not more than about 0.25mm while the other size is from about 0.4 to about 1mm. The cells are dispersed in an island in the sea manner. A foam such as a styrenic foam is produced by forming a mixture of synthetic resin, a fine mineral powder having hydroxyl groups, and a cell controlling agent, incorporating a volatile foaming agent and extruding the mixture to form a foam. The powder has a particle size of not more than 1000nm and may be a silica having silanol groups.

IPC 1-7
C08J 9/00; **C08J 9/14**; **C08K 3/36**; **C08K 5/05**

IPC 8 full level
E04F 15/02 (2006.01); **B29C 47/00** (2006.01); **C08J 9/00** (2006.01); **C08J 9/12** (2006.01); **C08J 9/14** (2006.01); **C08J 9/18** (2006.01); **B29K 25/00** (2006.01); **B29K 105/04** (2006.01); **B29L 31/10** (2006.01)

CPC (source: EP KR US)
A61K 39/395 (2013.01 - KR); **C08J 9/00** (2013.01 - EP US); **C08J 9/0023** (2013.01 - EP US); **C08J 9/0066** (2013.01 - EP US); **C08K 3/346** (2013.01 - EP); **C08K 3/36** (2013.01 - EP); **C08J 2325/06** (2013.01 - EP); **Y10S 521/908** (2013.01 - EP US)

C-Set (source: EP)
1. **C08K 3/346** + **C08L 25/06**
2. **C08K 3/36** + **C08L 25/06**

Citation (search report)
• [A] GB 916776 A 19630130 - MONSANTO CHEMICALS
• [A] US 4048272 A 19770913 - SPICUZZA JR JOHN P
• [A] US 4048208 A 19770913 - SPICUZZA JR JOHN P, et al
• [A] LU 665654 A
• [X] CHEMICAL ABSTRACTS, vol. 81, no. 20, 1974, page 77, abstract no. 122090x, Columbus, Ohio, US; & JP-A-49 031 763 (SEKISUI KASEIHIN KOGYO K.K.) 22-03-1974

Cited by
EP1170325A4; DE19542060A1; US5332761A; KR20180091017A; US5369137A; US5380767A; EP0439692A3; US6750264B2; US6787580B2; EP0644912B1; WO03059997A1; US8568632B2; US9359481B2; US10184037B2

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0353701 A2 19900207; **EP 0353701 A3 19910123**; **EP 0353701 B1 19970402**; AR 243565 A1 19930831; AT E151094 T1 19970415; CA 1330155 C 19940614; DE 68927924 D1 19970507; DE 68927924 T2 19970918; DK 376789 A 19900203; DK 376789 D0 19890801; ES 2102349 T3 19970801; FI 101212 B1 19980515; FI 101212 B 19980515; FI 893651 A0 19890801; FI 893651 A 19900203; HU 216158 B 19990428; HU T56863 A 19911028; IS 1537 B 19940128; IS 3497 A7 19900203; JP H03109445 A 19910509; JP H0549701 B2 19930727; KR 0135603 B1 19980423; KR 900003262 A 19900326; KR 910002468 A 19910225; MX 170394 B 19930819; NO 175211 B 19940606; NO 175211 C 19940914; NO 893110 D0 19890801; NO 893110 L 19900323; NZ 230152 A 19920826; US 4990542 A 19910205; US 5064874 A 19911112

DOCDB simple family (application)
EP 89114160 A 19890801; AR 31456989 A 19890802; AT 89114160 T 19890801; CA 607313 A 19890802; DE 68927924 T 19890801; DK 376789 A 19890801; ES 89114160 T 19890801; FI 893651 A 19890801; HU 392689 A 19890801; IS 3497 A 19890731; JP 20101889 A 19890801; KR 890011023 A 19900720; KR 890011023 Q 19890802; MX 1703889 A 19890802; NO 893110 A 19890801; NZ 23015289 A 19890801; US 38814789 A 19890801; US 60658390 A 19901031